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MATERIAL

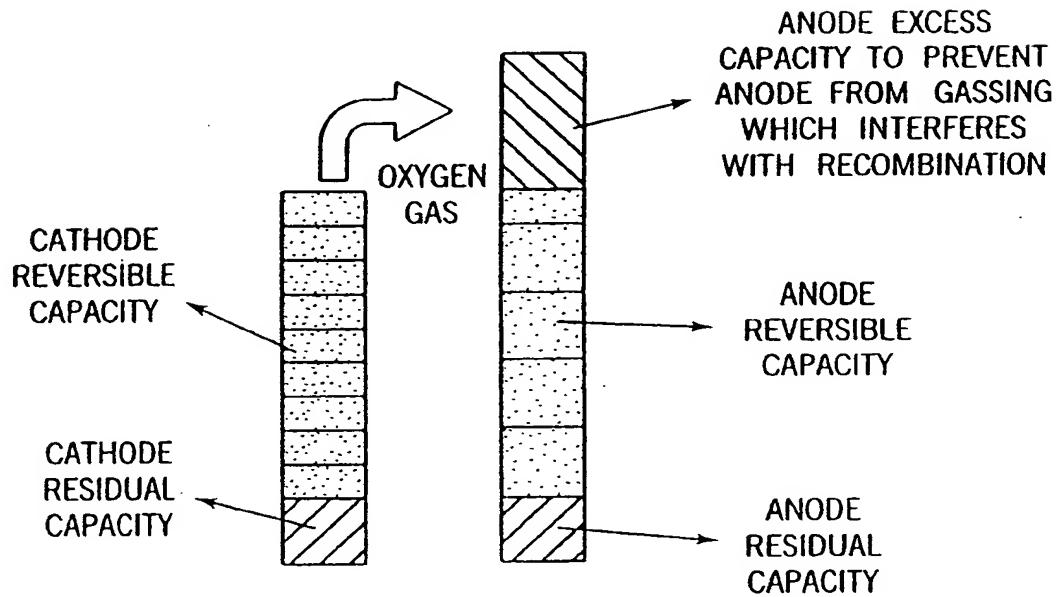


FIG. 1

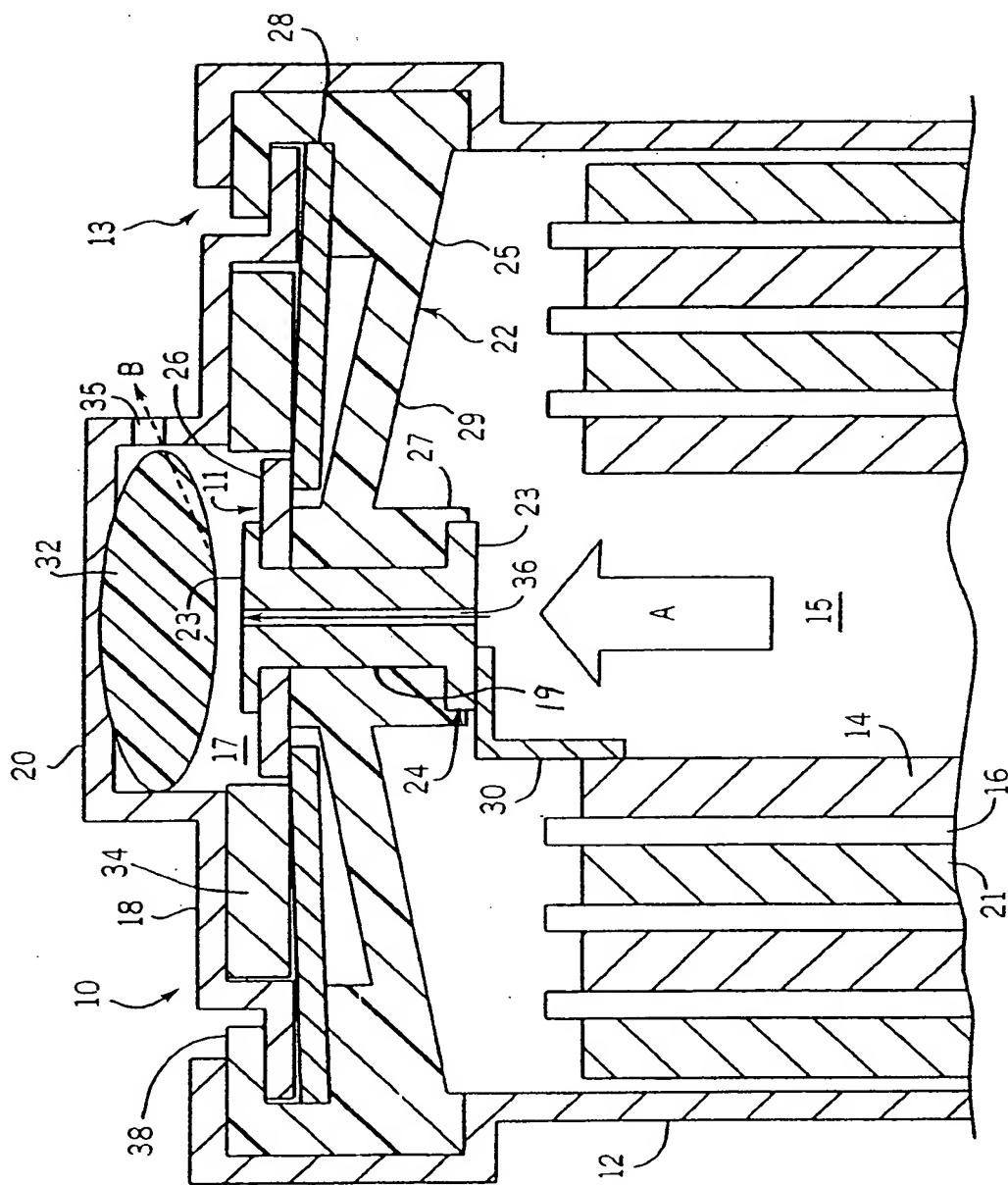


FIG. 2A

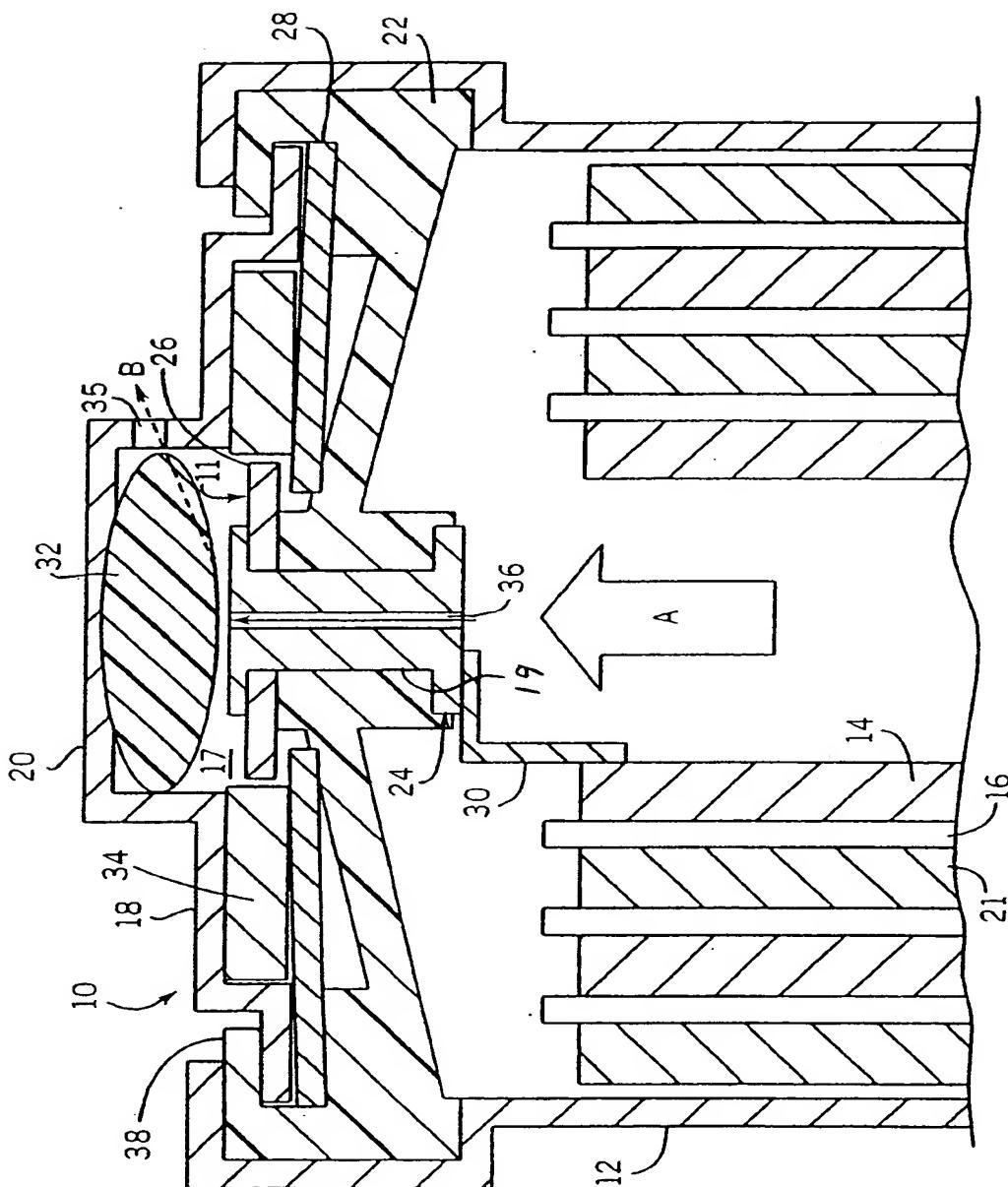


FIG. 2B

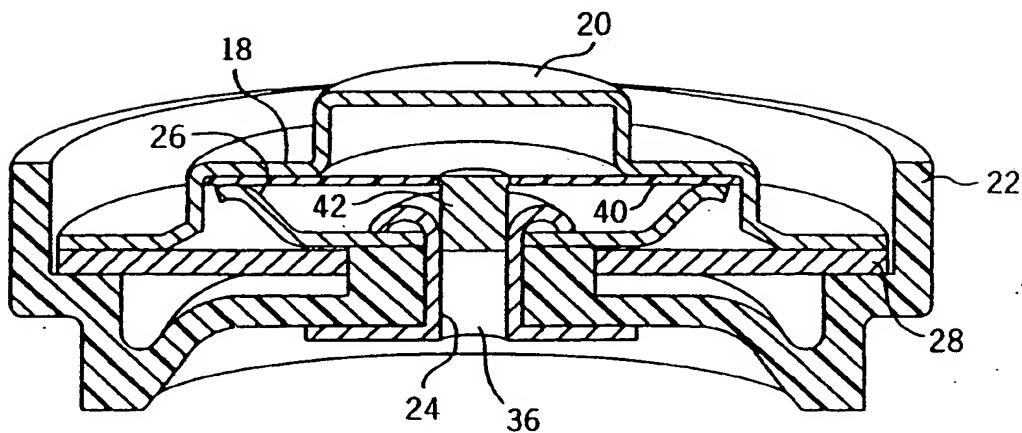


FIG. 3

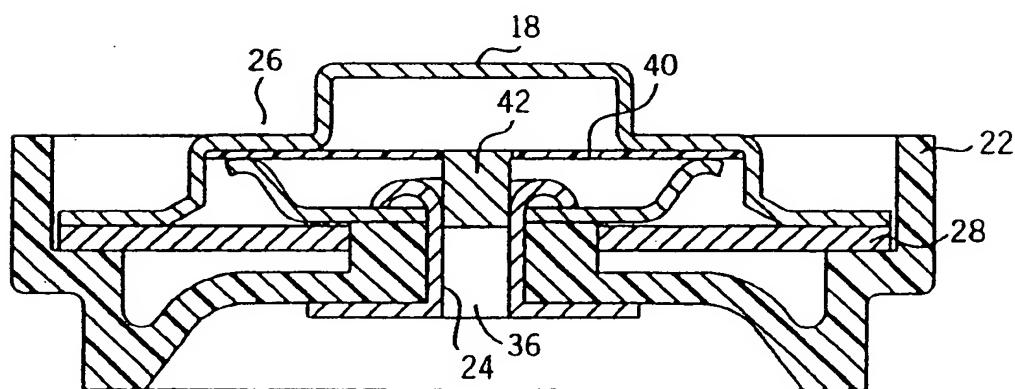
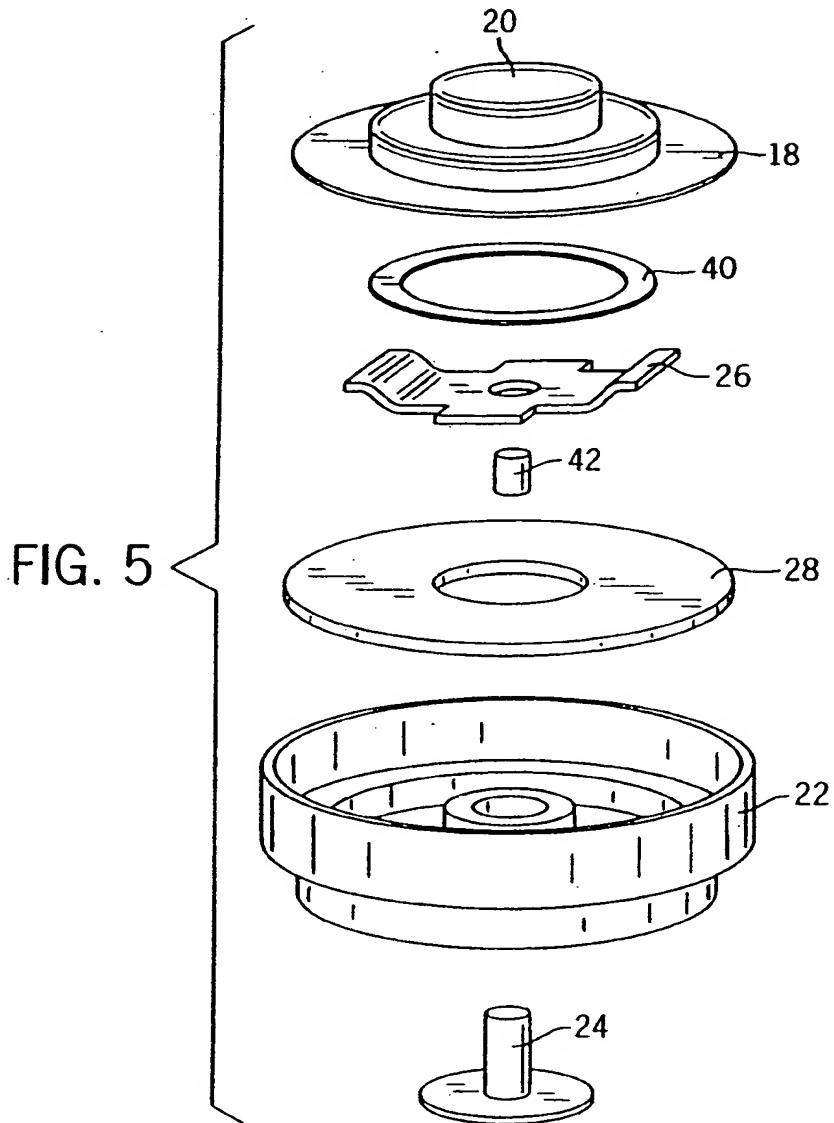
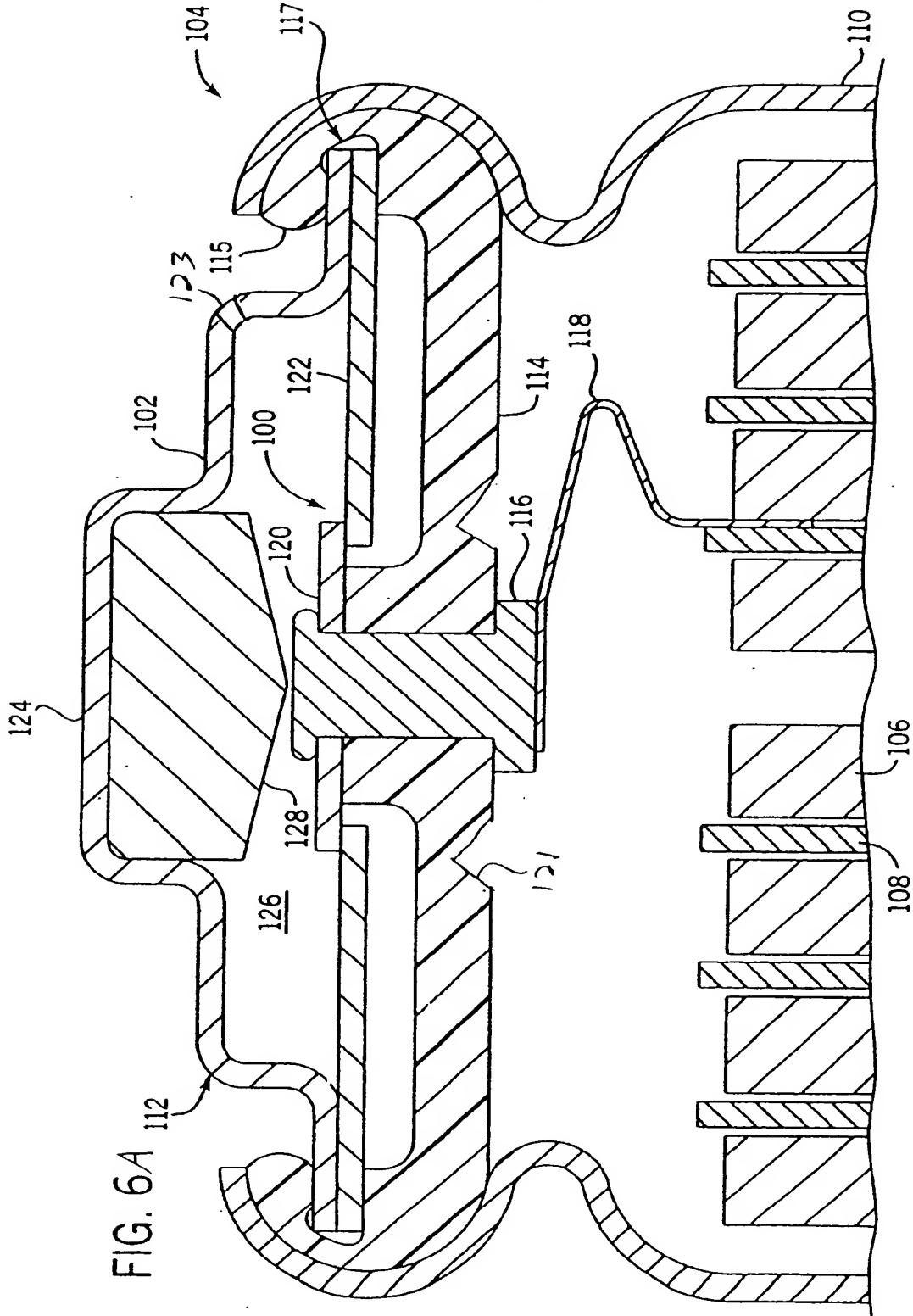
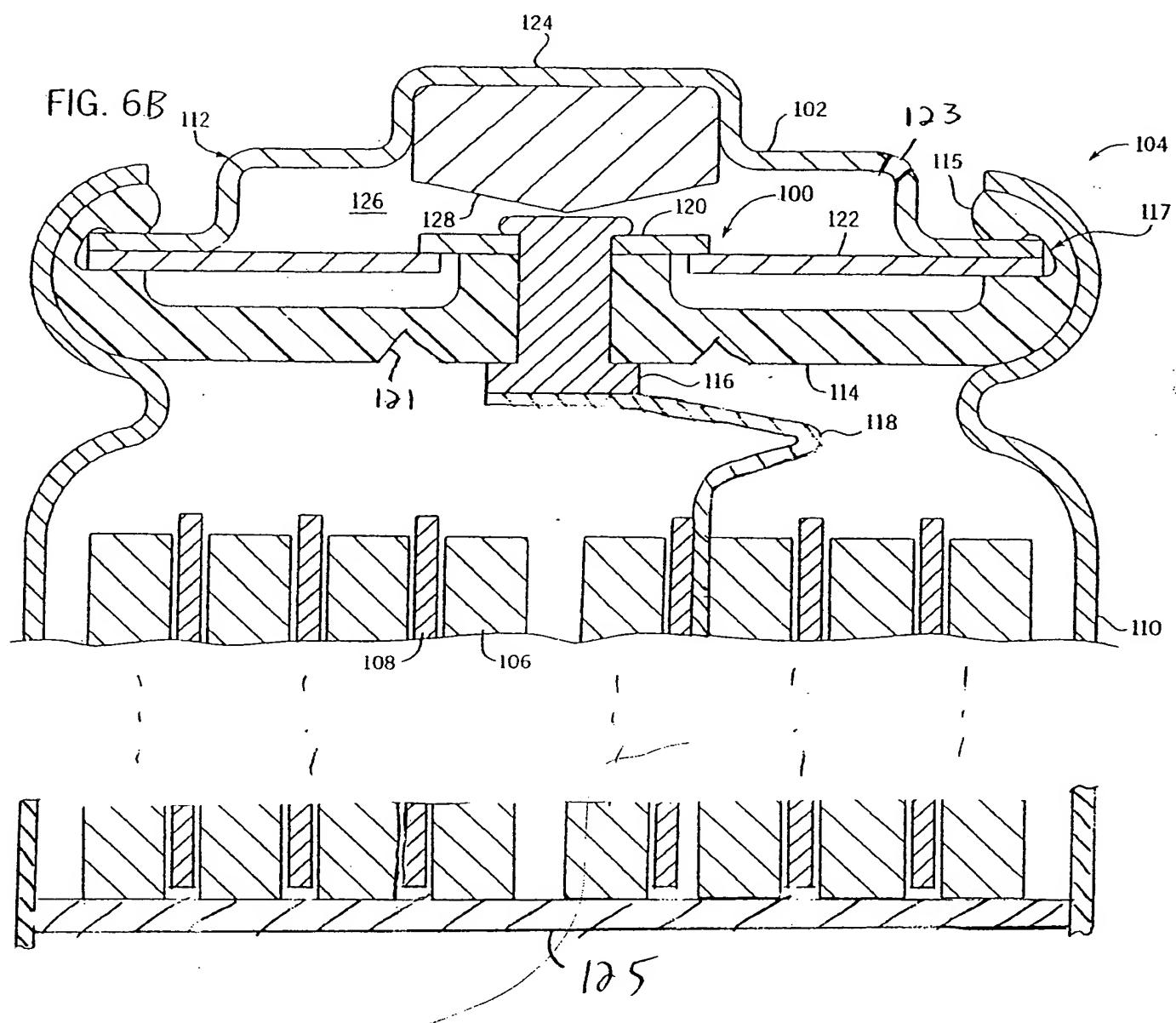


FIG. 4







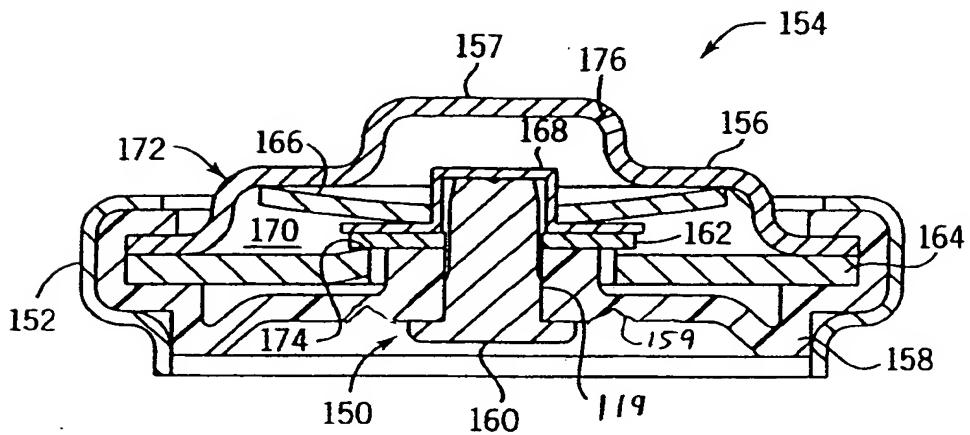


FIG. 7

FIG. 8

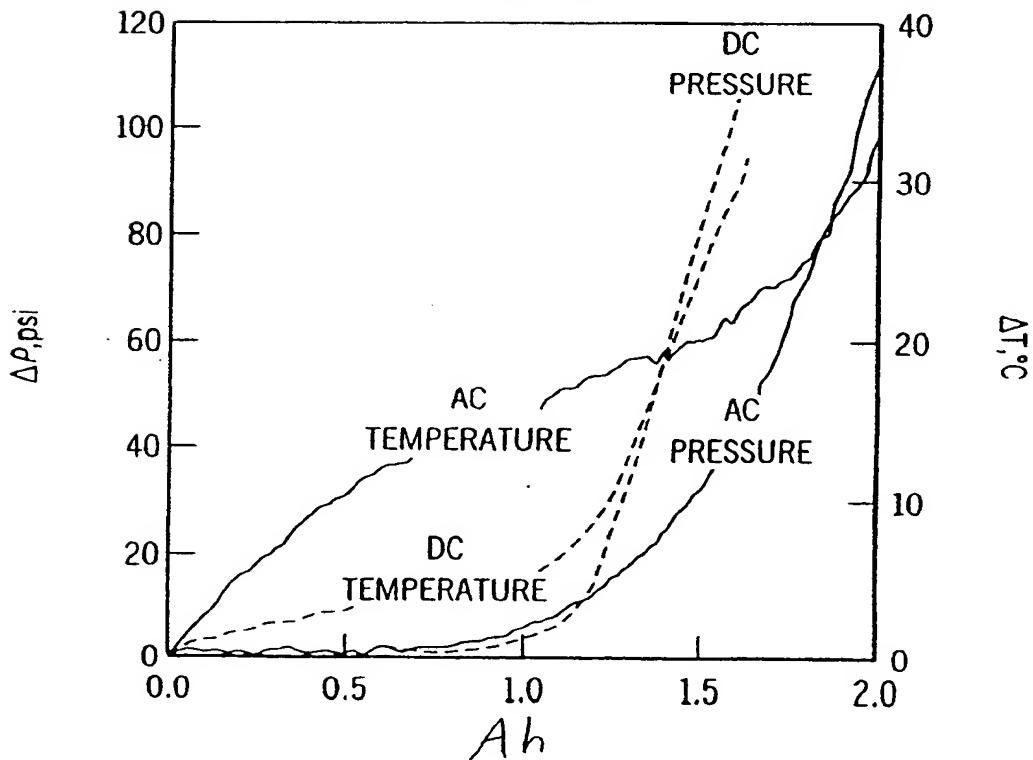


FIG. 9

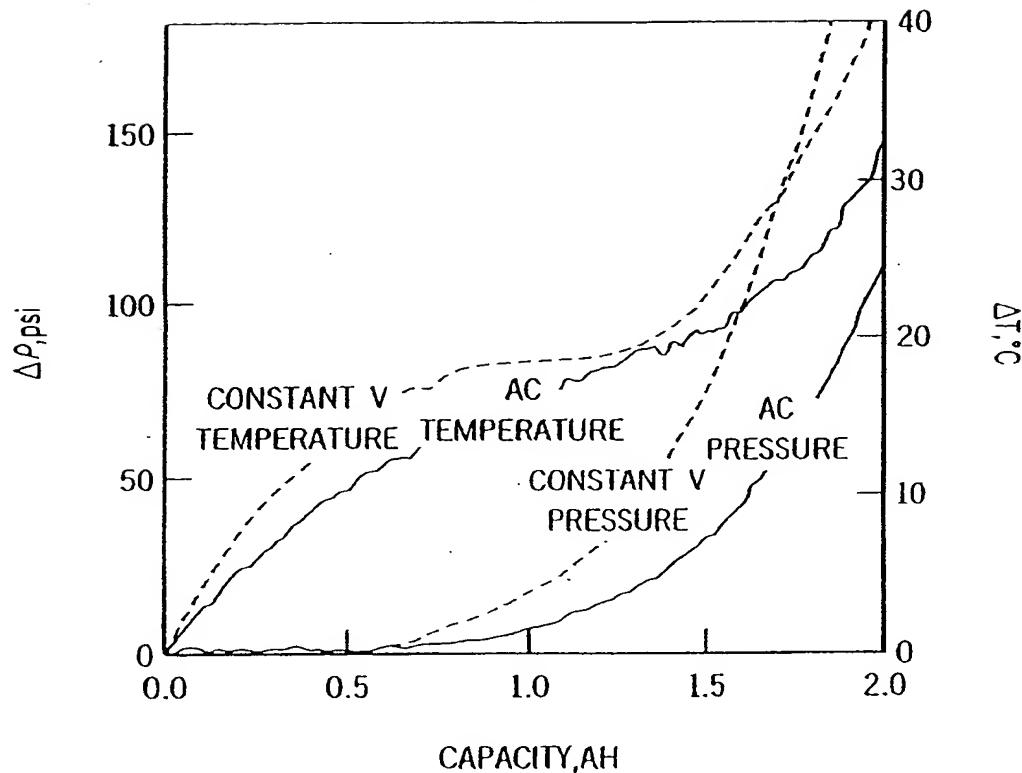
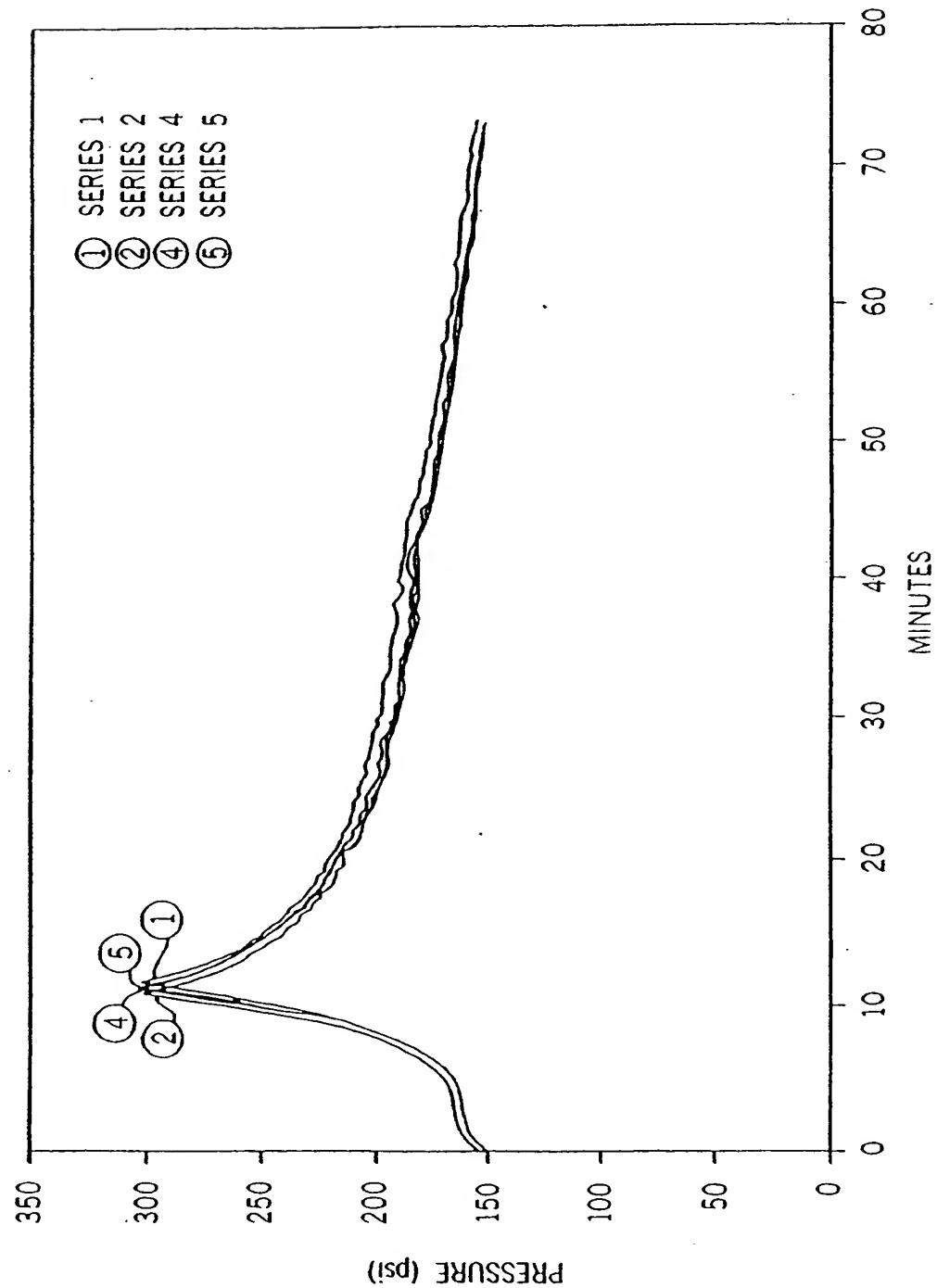


FIG. 10



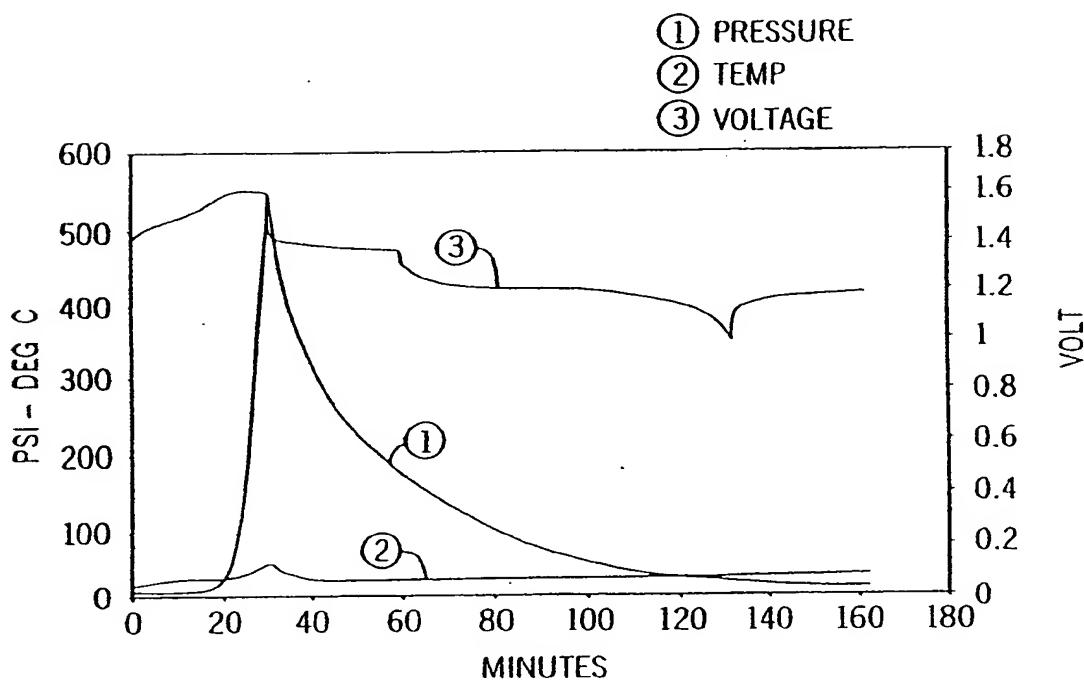


FIG. 11

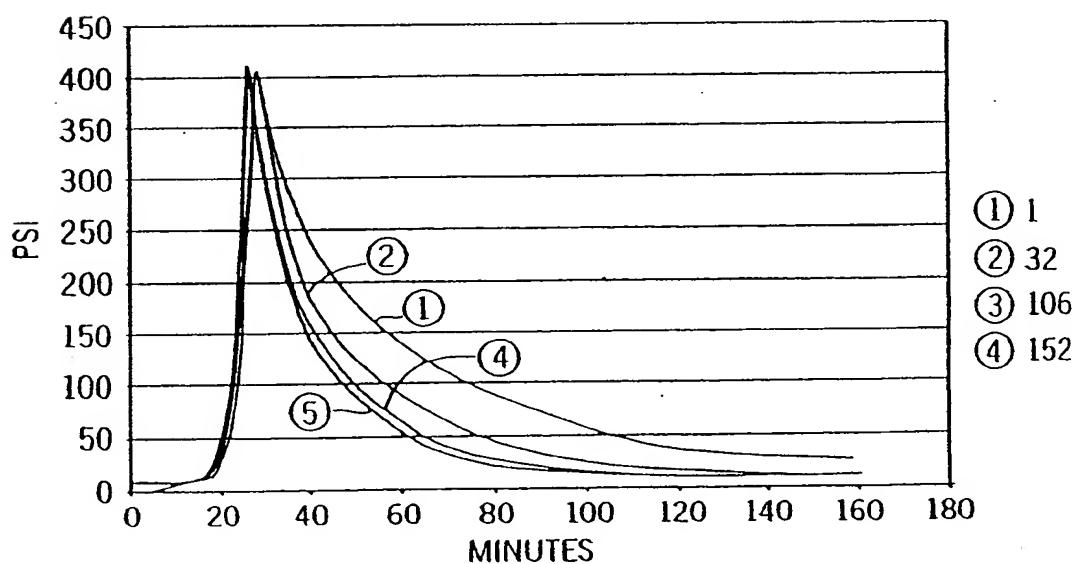


FIG. 12

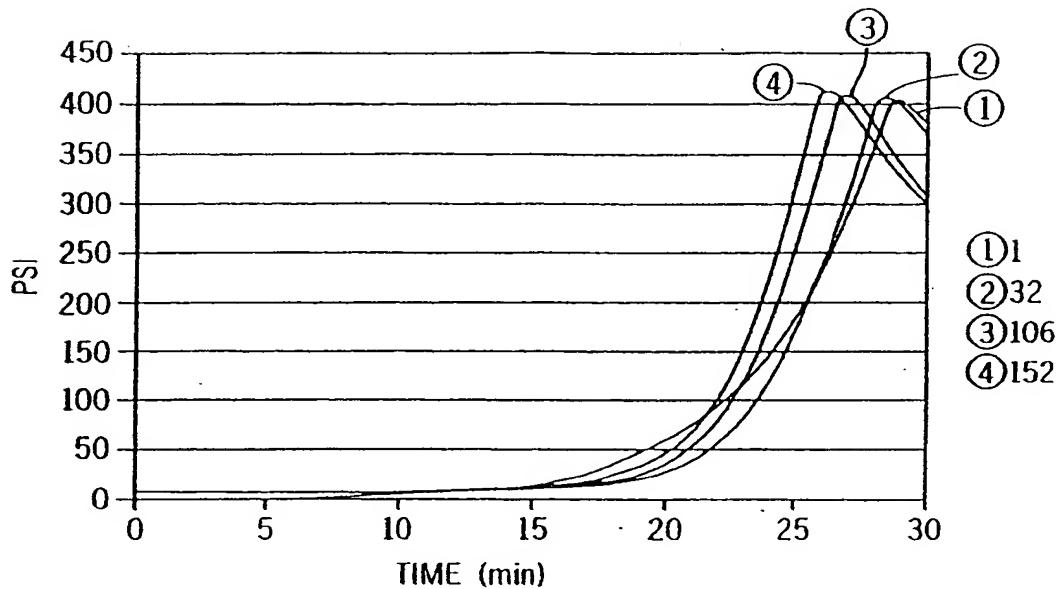


FIG. 13

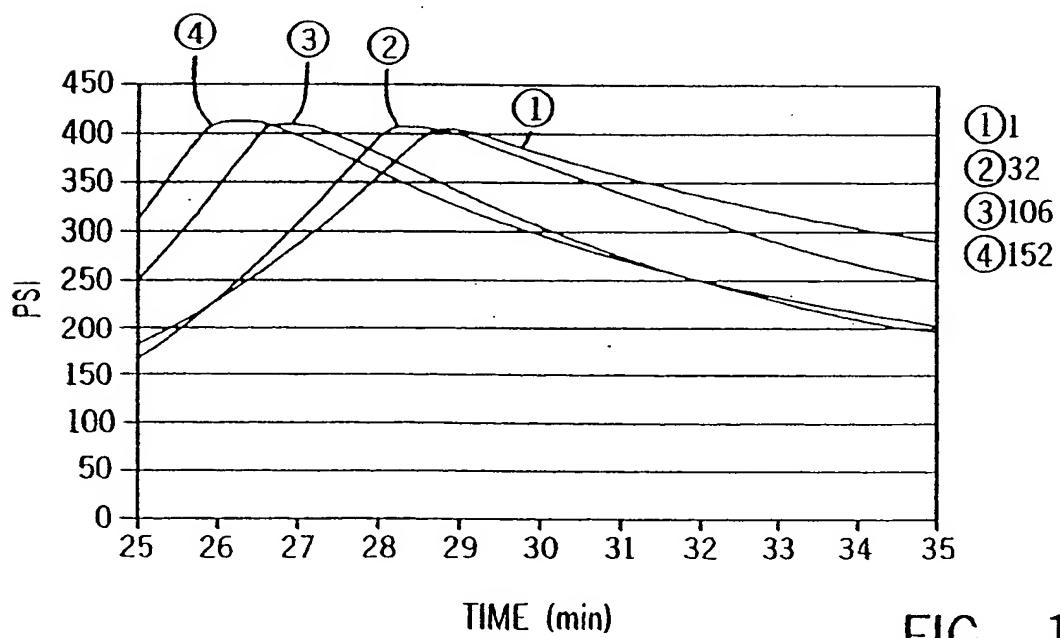


FIG. 14

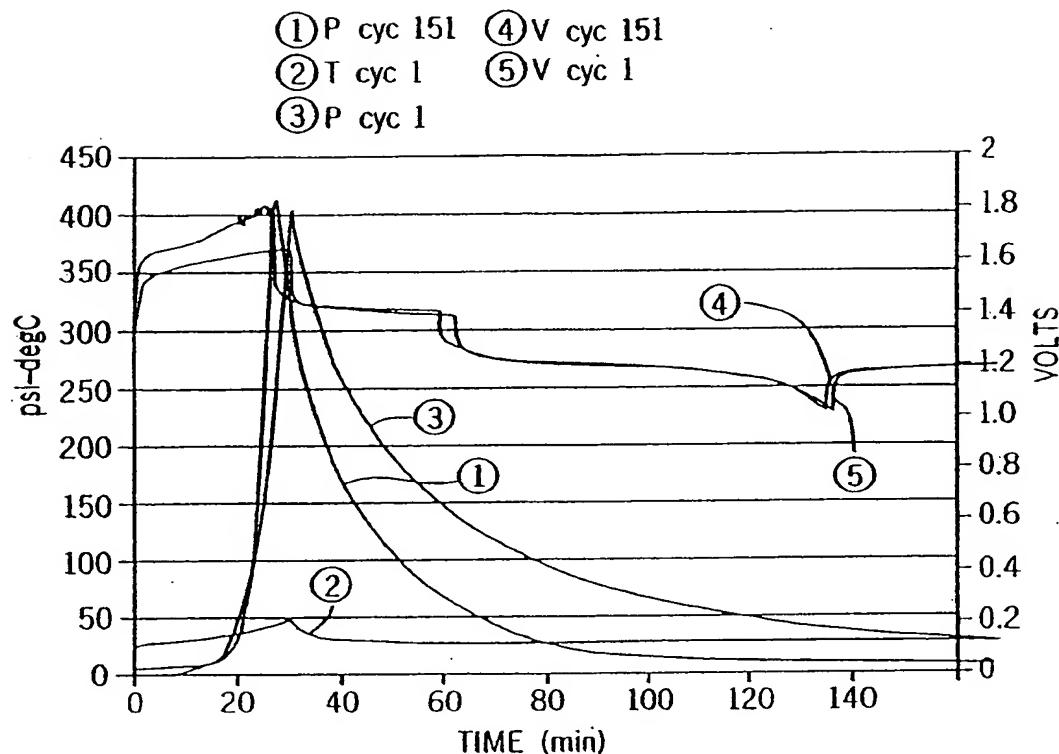


FIG. 15

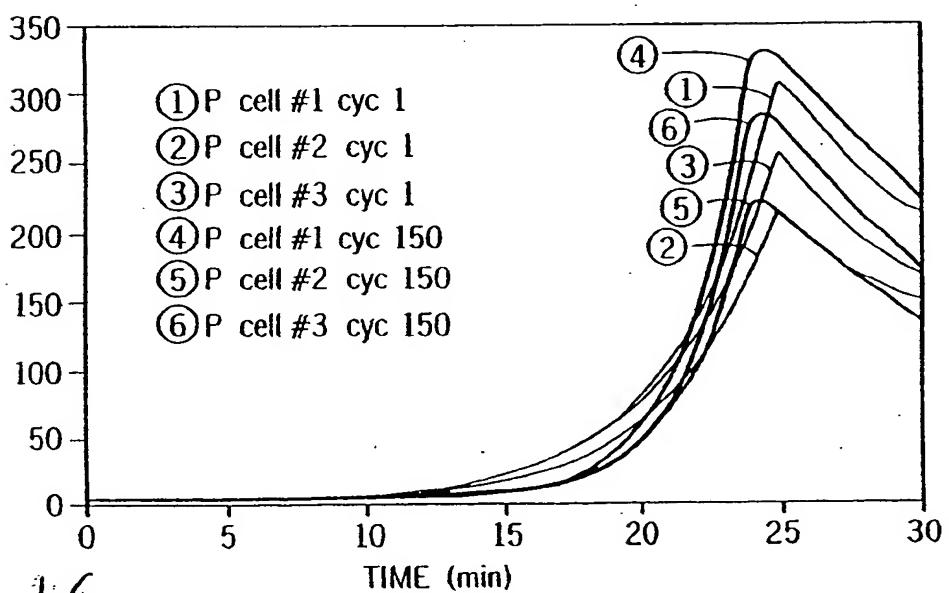


FIG. 16

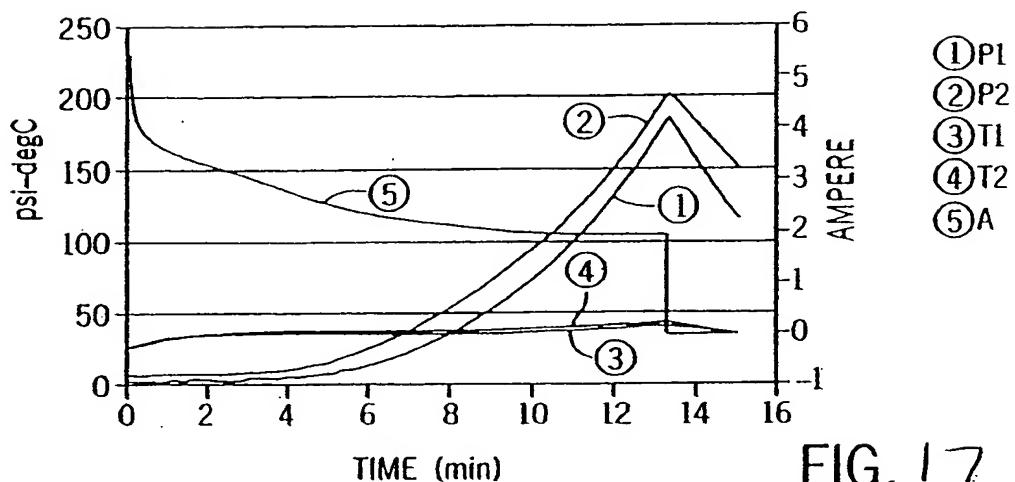


FIG. 17

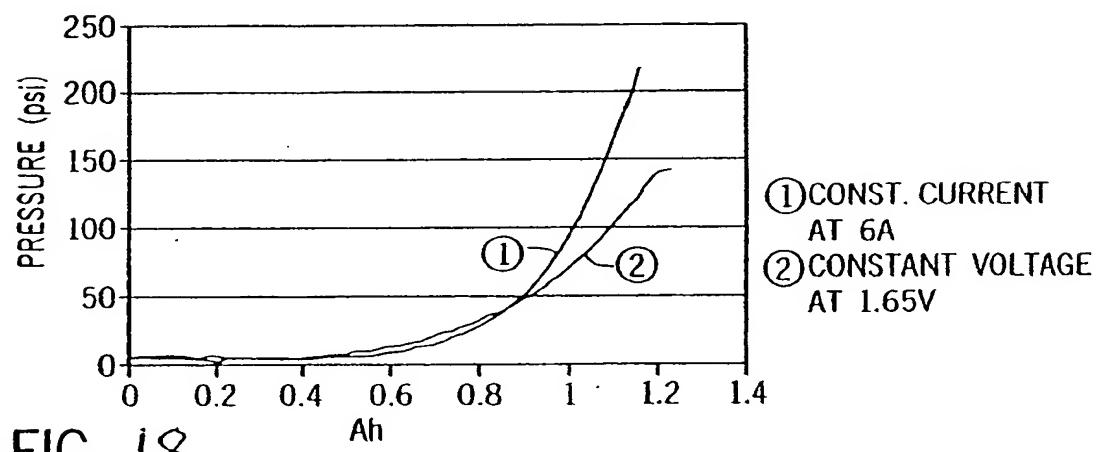


FIG. 18

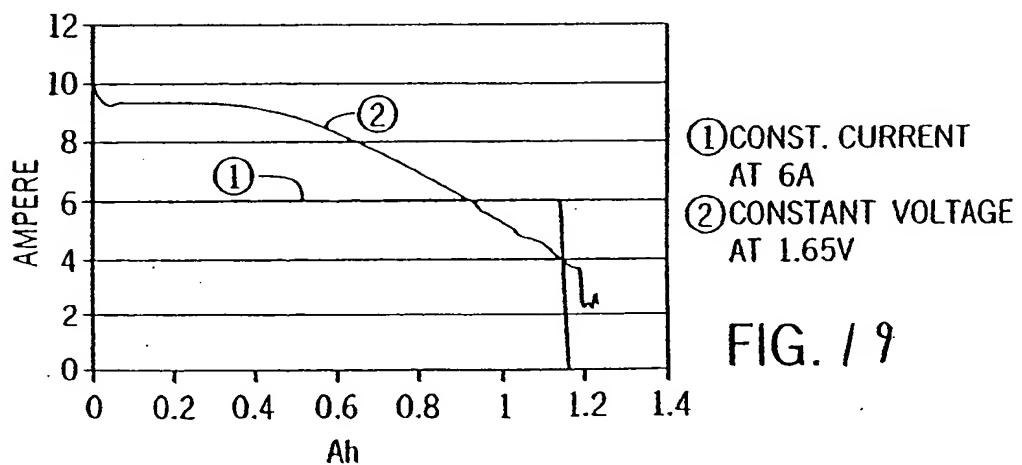


FIG. 19

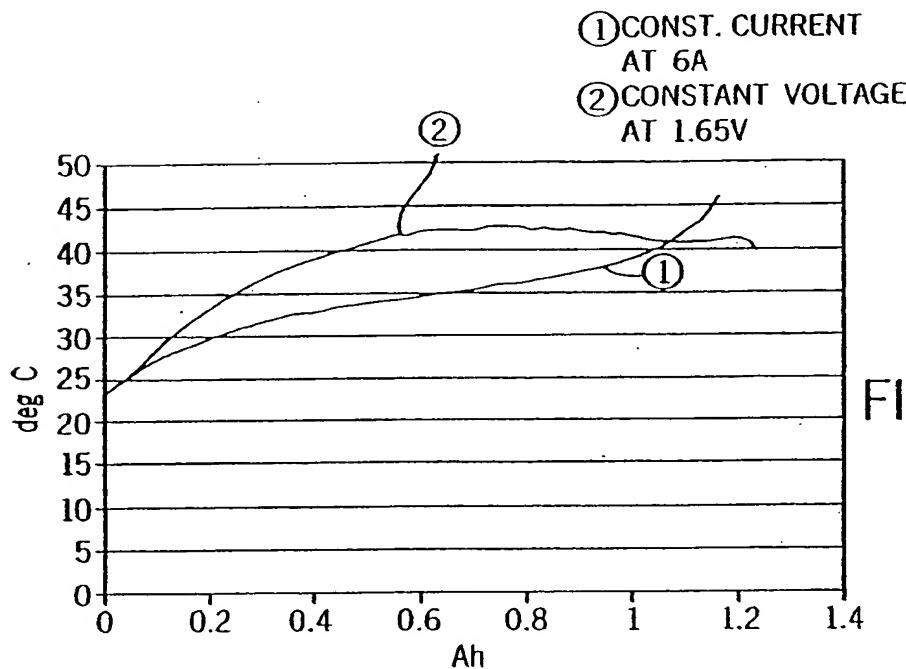


FIG. 20

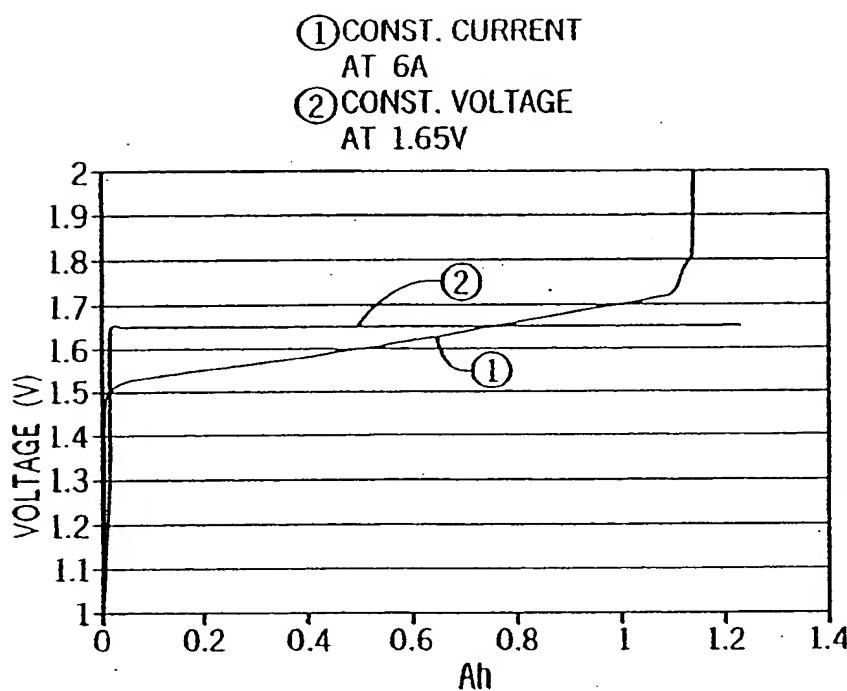


FIG. 21

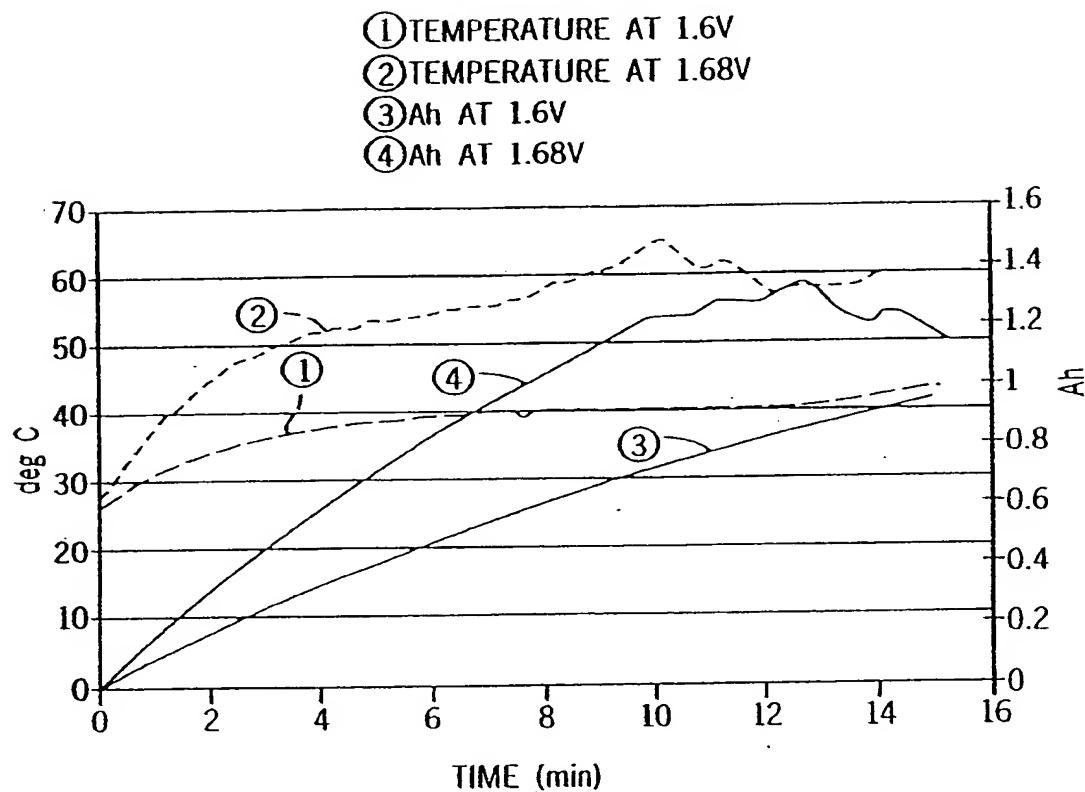


FIG. 22

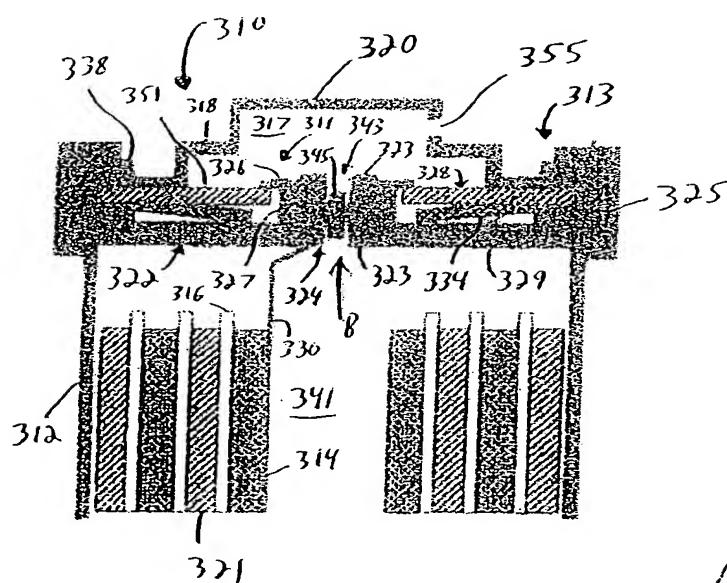


Fig. 23

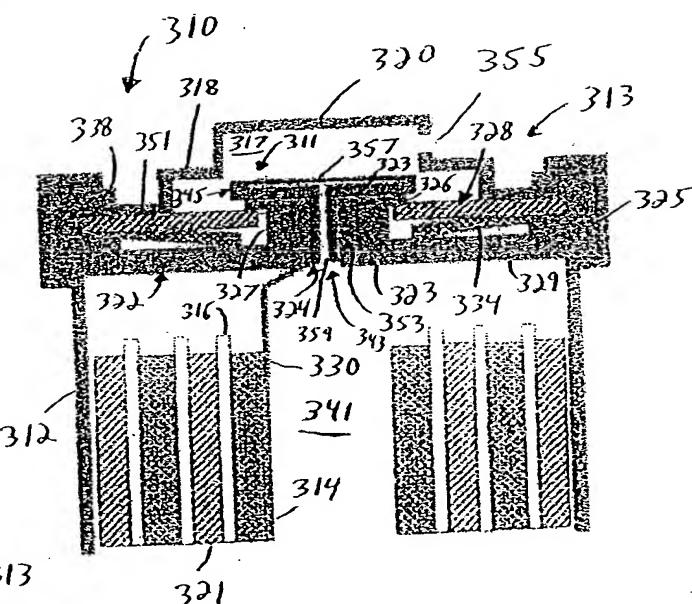


Fig. 24

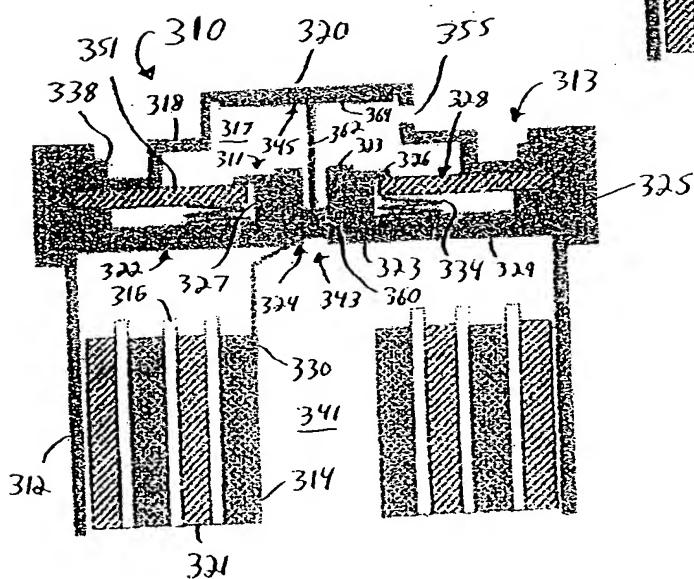


Fig. 25

Fig. 26A

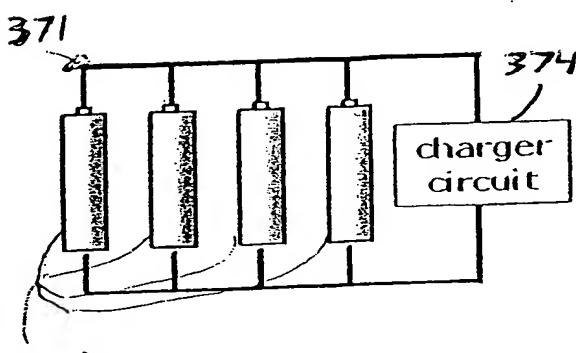
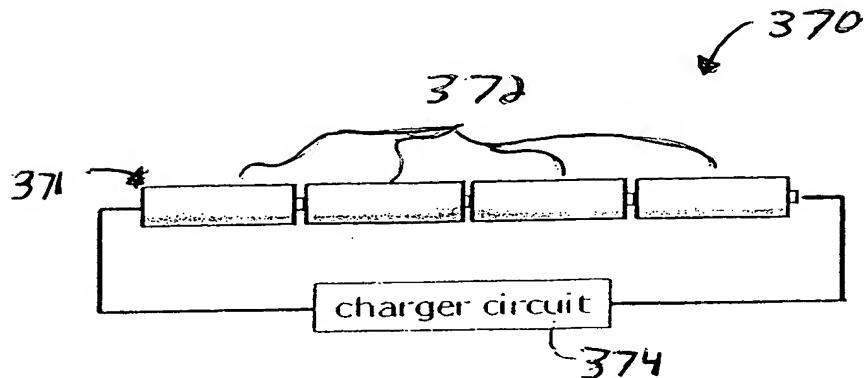


Fig. 26B

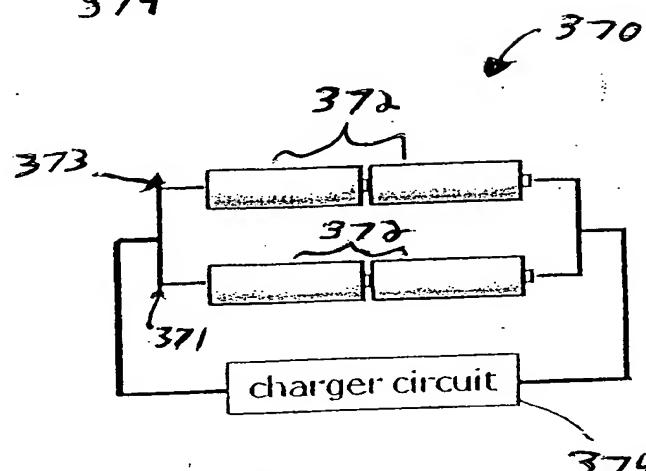


Fig. 26C

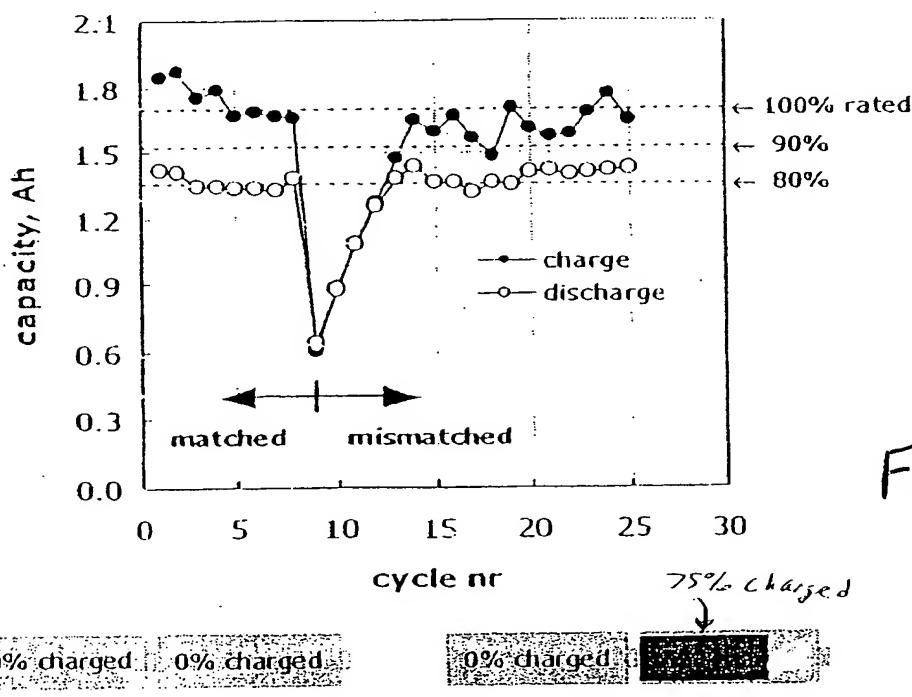


Fig. 27

matched

mismatched

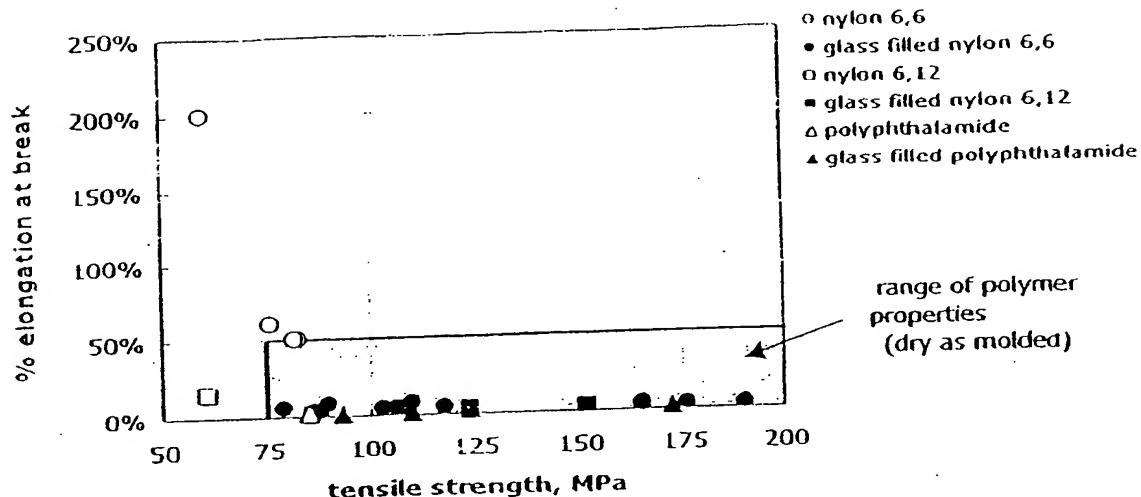


Fig 28A

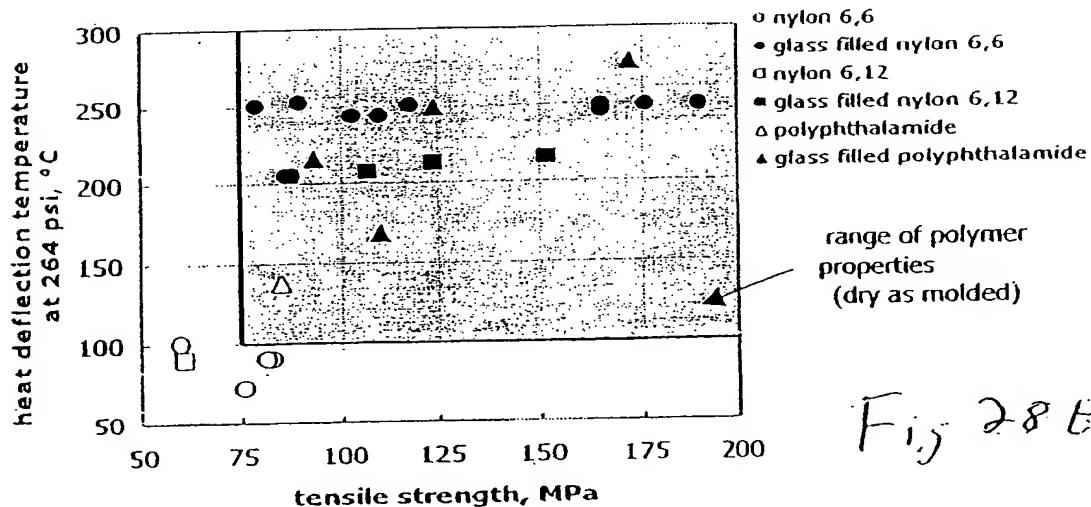


Fig 28B

fast charging of AA NiMH with in cell
 charge control

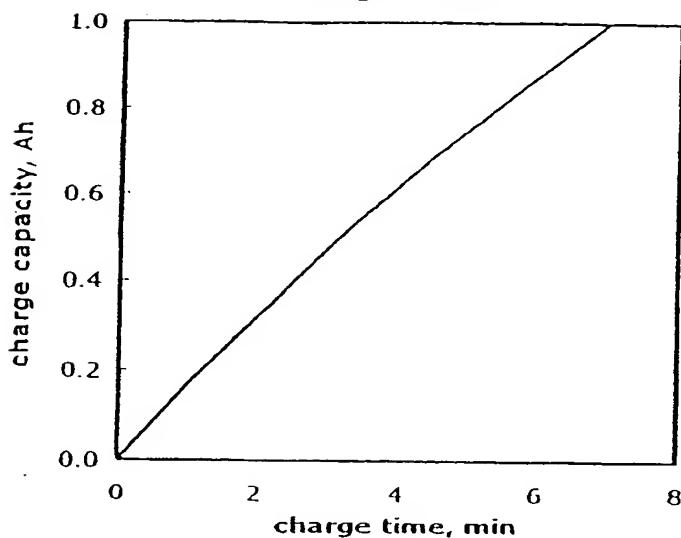


Fig 29

type	vol, cm ³	C, F	E, V	discharge		Wh	Wh/L	R(m _{SR})
				t, min	Ah			
NiMH AA	7.52	1.4	78	1.300	1.56	1.56	207	35
supercap	6.77	0.56	3.5	0.0231	3.9e-4	8.61e-4	0.127	25
" "	8.78	0.40	5.5	0.0298	5.0e-4	1.60e-3	0.183	35
" "	7.04	4.7	2.5	0.116	1.9e-3	3.35e-3	0.475	25
" "	7.04	22	2.5	0.535	8.9e-3	1.54e-2	2.19	46
" "	8.91	33	2.5	0.809	1.3e-2	2.34e-2	2.62	30
" "	8.91	10	2.5	0.233	3.9e-3	6.61e-3	0.742	100
" "	8.91	10	2.5	0.243	4.1e-3	7.02e-3	0.788	40

Fig 30

Fig. 31A

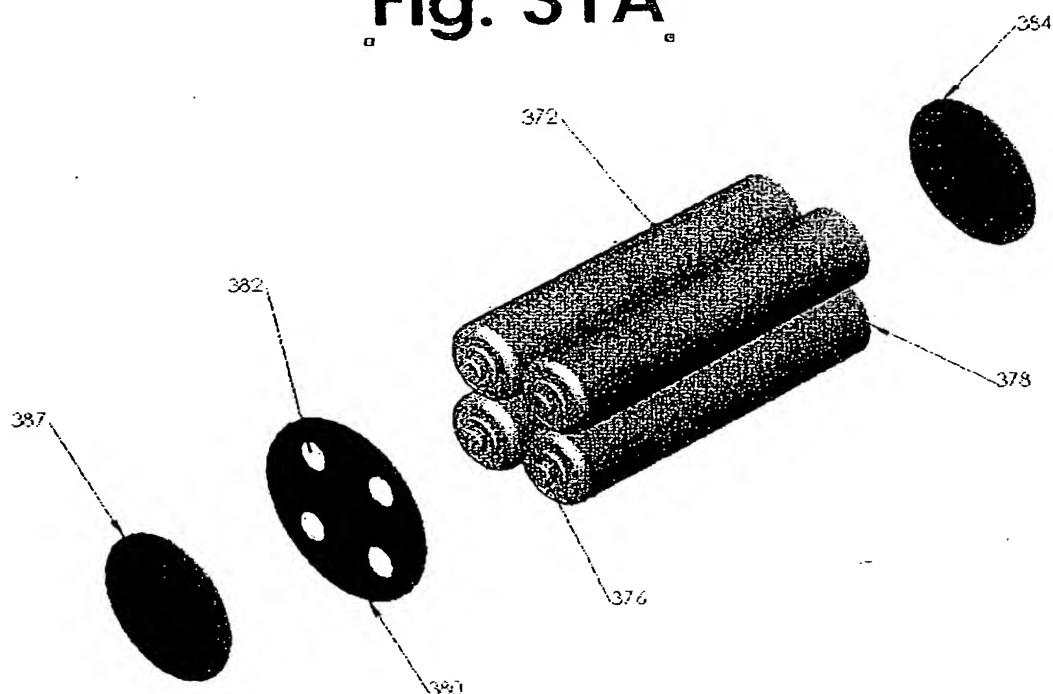


Fig. 31B

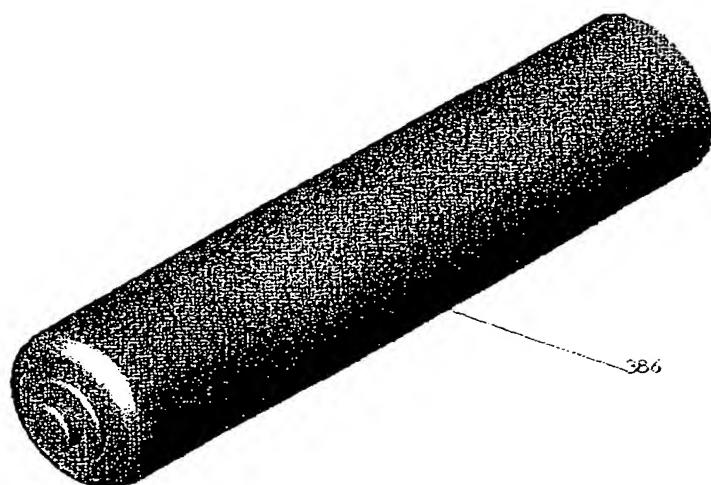


Fig. 32A

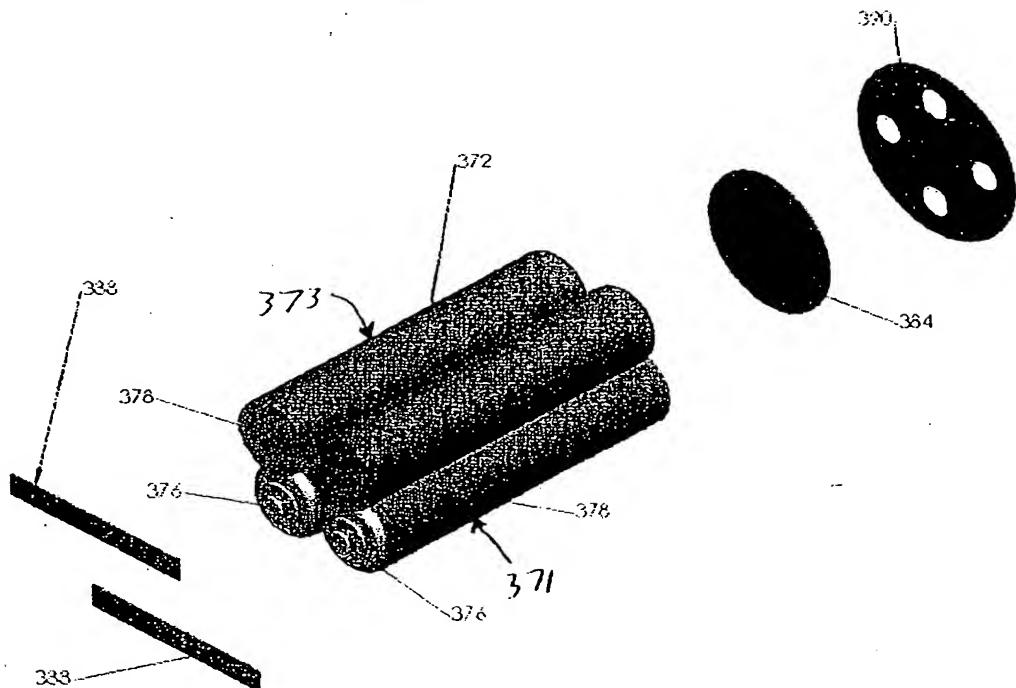
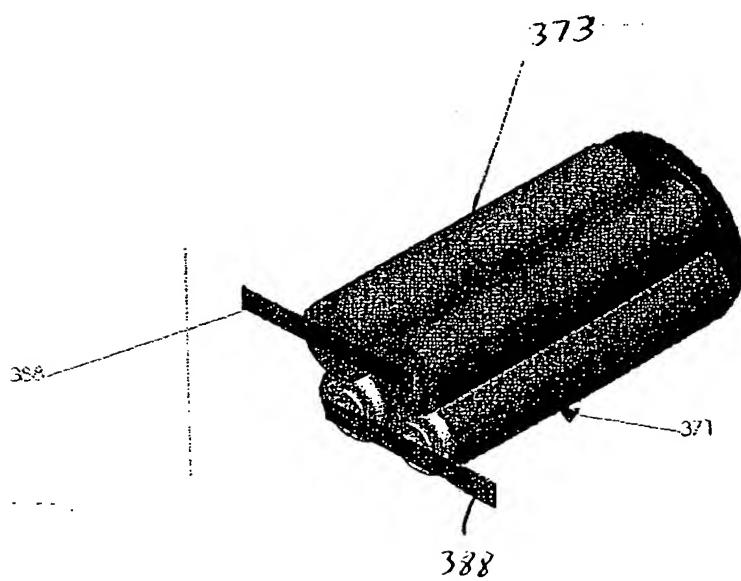


Fig. 32B



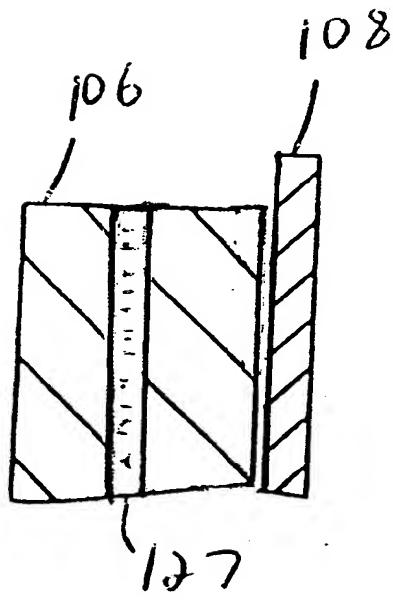


Fig. 33A

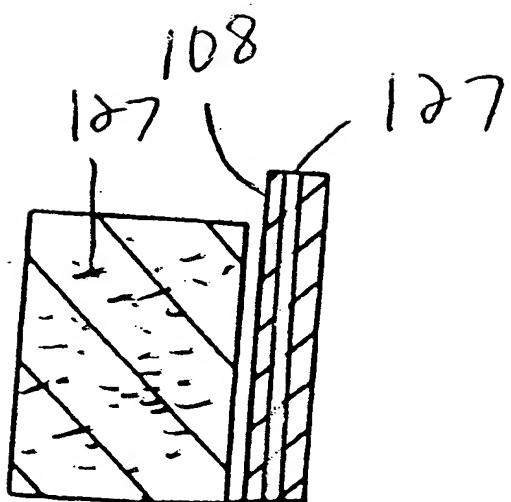
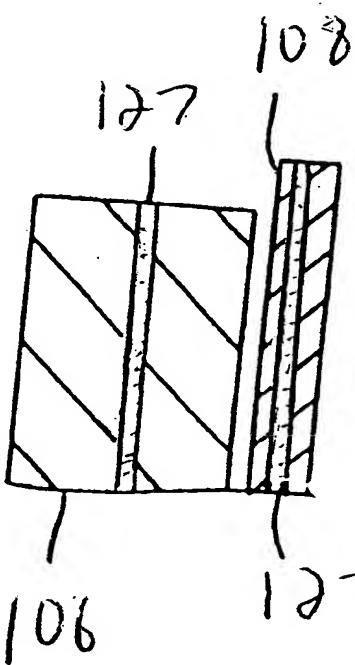


Fig. 33B

Fig. 33C